

ABSTRACT OF THE DISCLOSURE

The invention relates to a power split drive train that includes a variable
5 speed ratio path and a fixed speed ratio path. An epicyclic gearset, driven at two
inputs, one input continually connected to the variable path, combines the power from
the fixed path and variable path. A coupler driveably connects one of the gearset
inputs alternately to the fixed path and the variable path. With the coupler connecting
the fixed path and the gearset input, the speed ratio of the variable speed ratio path
10 varies over a range that produces a stepless range of reverse speed ratios, geared
neutral and a stepless range of forward speed ratios. With the coupler connecting the
variable path and a gearset input, the speed ratio of the variable speed ratio path varies
over a range that produces higher speed ratios in forward drive.